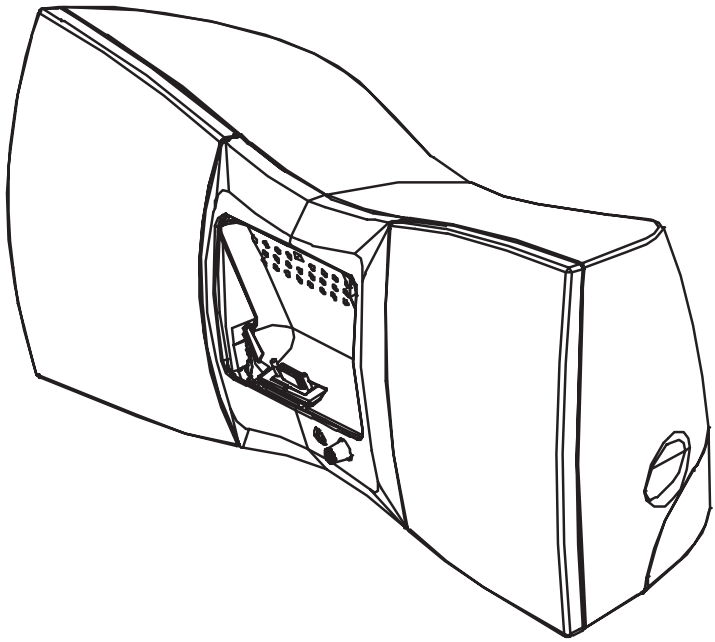
DELPHI

SKYFi™ Audio System

Installation & Operation Guide



SATELLITE RADIO

RADIO TO THE POWER OF X.℠

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Warning

To prevent fire or shock hazard, do not expose the boom box to rain or moisture.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For customers in the United States

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Delphi could void the user’s authority to operate this equipment.

Owner’s Record

The model number is located at the bottom and the serial number is located on the label on the rear of the Audio System.

Record the serial number in the space provided below. Refer to these numbers whenever you call upon your dealer regarding this product.

Model No.: DELPHI SA10001 Serial No._____

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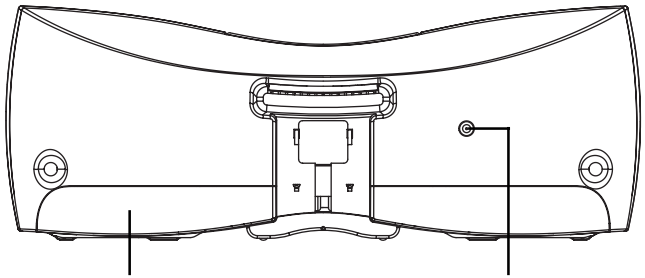
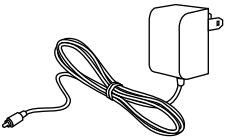
SKYFi™ Audio System Set-Up

Your SKYFi™ Audio System Kit contains the following components:



Battery compartment and antenna cable storage

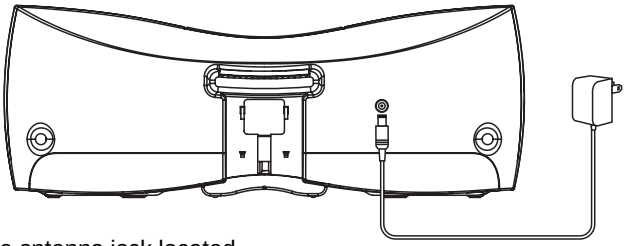
12V. DC jack



12V. DC Adaptor

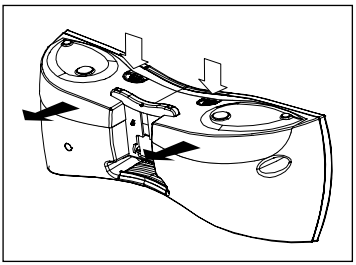
Antenna

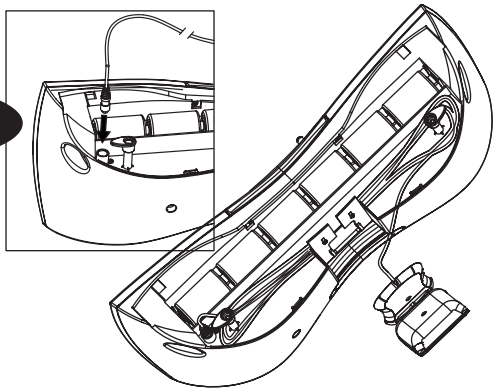
Set-up your SKYFi™ Audio System as follows:



1. Connect the supplied 12V DC power adapter to the socket on the rear of the Audio System, and the other end to a wall outlet.

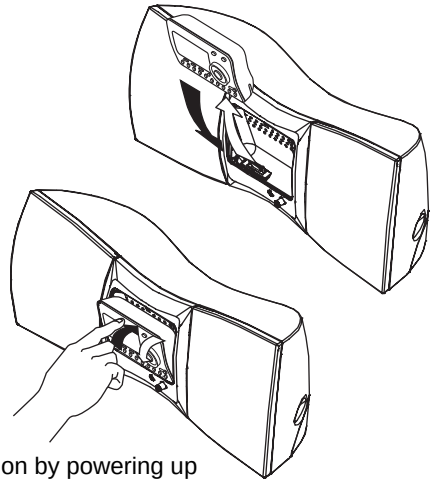
2. Connect the XM Antenna to the antenna jack located inside the battery and antenna cable storage compartment located on the bottom of the Audio System. The cover must first be removed by pressing down on the two tabs with your thumbs and then sliding away from the front of the Audio System. The antenna cable can either be completely wound around the tabs in the compartment, leaving just enough cable to attach





the antenna to the four tabs on the back of the Audio System, or the entire 20 foot cable can be used to position the antenna away from the Audio System for better reception. Lining up all six tabs and then sliding the panel towards the front of the unit until a click is heard will reattach the panel. Make certain that all six tabs are engaged and the rear of the panel is aligned with the rear cover.

3. Insert the SKYFi™ Receiver (sold separately) by first pressing in on the back of the black inset cradle in the Audio System and then letting the cradle tilt forward, carefully slide the SKYFi™ Receiver down into the tray so that the alignment tabs on the sides of the tray line-up with the slots on SKYFi™ and the connector is completely seated. Push on the top center above the display of the SKYFi™ Receiver so that it tilts back into the Audio System until a click is heard. The SKYFi™ Receiver can be removed by reversing this process.



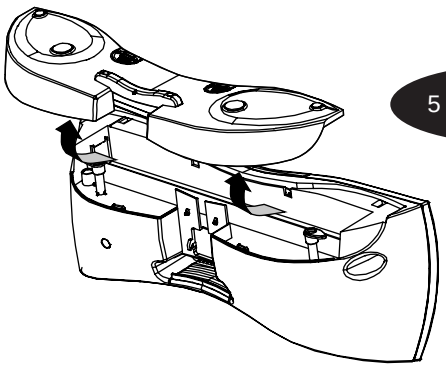
4. Power up the SKYFi™ /Audio System combination by powering up the SKYFi™ R eceiver using the power button on the receiver or on the remote control.

5. If the display reads “ANTENNA” after powering up, check that the antenna connection is secure and completely pushed in. Next, change channels (from 0 to 1 or from 1 to 0 if the receiver is not authorized yet.) If the “ANTENNA” message remains, power down the radio, unplug the antenna, and look for any obvious damage in the connector, jack, or antenna cable. If no damage is detected, reconnect the antenna, turn the unit back on, and change channels again. If the message still appears, contact your retailer.

6. If the display reads “NO SIGNAL” after powering up, follow the instructions in the Antenna Set-up Section.

Using the SKYFi™ Audio System with batteries

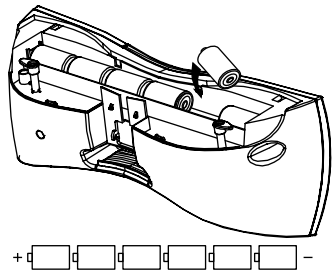
The SKYFi**™** Audio System can be used with batteries (not supplied) to allow you to listen to XM outdoors or in other locations without access to an A.C. power source. Alkaline or rechargeable NiCD batteries are recommended. Battery life will vary depending on how the system is operated and the type of batteries being used. It is recommended that the AC Adapter be the primary power source for the SKYFi**™** Audio System in order to preserve battery life.



1. Disconnect the power adapter from the back of the Audio System.

2. Remove the battery and antenna cable storage compartment cover, as described in #2 in the previous section.

3. Insert six D size (R20) batteries into the battery compartment. Make sure that the batteries are facing the correct direction by verifying that the positive (+) and negative (-) symbols in the battery compartment match up with the same symbols on the batteries.



4. It is recommended that the batteries be removed when it is not in use for an extended period of time.

Antenna Set-up

Positioning the XM Antenna

The antenna that comes with the SKYFi™ Audio System is a high-gain antenna that can receive XM's signal from XM's satellites and/or, depending on where you live, XM's land based repeaters. It is recommended that the antenna be positioned near a south-facing window or outdoors with a clear view of the southern sky in order to receive the satellite signal. In some cases, it will be possible to receive XM's signal through standard home walls or a roof.

To position your antenna, first set up the Audio System as described earlier in this manual. Next, position the antenna until you receive the strongest possible satellite signal. If the satellite signal is not available, you can optimize it for a terrestrial signal (where available).

Optimizing Antenna Position/Signal

- Press the "Power" button on the SKYFi™ Receiver to start the Audio System.
- Press the "menu" button.
- Using the scroll wheel, turn the wheel until "Antenna Aiming" is highlighted.
- With "Antenna Aiming" still highlighted, press the "enter" button found in the center of the scroll wheel. The display will show the strength of the satellite and/or terrestrial signals. The antenna signal strength is indicated by the number of filled bars.

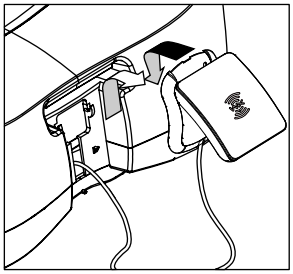
Installing the XM Antenna on the rear of the Audio System.

When outdoors with a view of the southern sky, or in an area of repeater coverage, or when receiving a strong signal indoors, you can conveniently mount the antenna directly on the back of the Audio System.

1. Remove the battery and antenna cable storage compartment cover as previously described, wind the antenna around the two cable hooks, leaving several inches of cable free, and replace the cover.

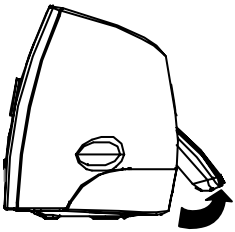
2. Fold the antenna down flat against its base.

3. Position the antenna so that the XM logo is upside down, then place the antenna base against the back of the Audio System so that the four pegs line up with the four slots in the antenna base.



4. Place the antenna so that the base is flush with the back of the Audio System, and then slide down approximately 3/8ths of an inch so that the tab at the base of the Audio System lines up with the slot in the bottom of the antenna.

5. Position the antenna by pivoting the half with the XM logo away from the back of the Audio System and turning the entire Audio System until you get the strongest signal.



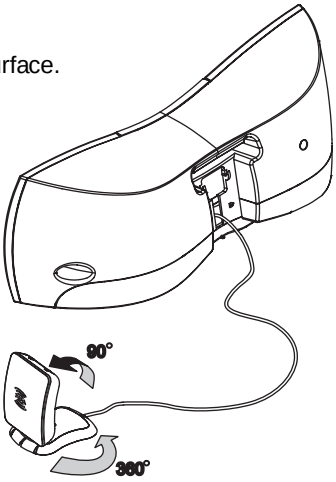
6. Use the “Antenna Aiming” screen as described in the previous section to optimize the antenna tilt angle and position.

If you are unable to receive a signal, then position the antenna as described in one of the next two sections.

Indoor installation on a flat surface

To aim your antenna at the satellite:

1. Set antenna flat against its base on a flat (horizontal) surface.
2. Turn the base of the antenna so that the XM logo is facing to the south.
3. Use the “Antenna Aiming” screen to optimize antenna tilt angle and position.
4. If necessary, experiment with different locations near a south-facing window or outside.



Your antenna comes with 20 feet of cable. If that is not sufficient to locate the antenna where there is a strong XM signal, purchase a 50-foot cable extension (Delphi model number SA10006) from your SKYFi™ retailer. Up to eight extensions can be used together for up to 40 0 total feet of cable.

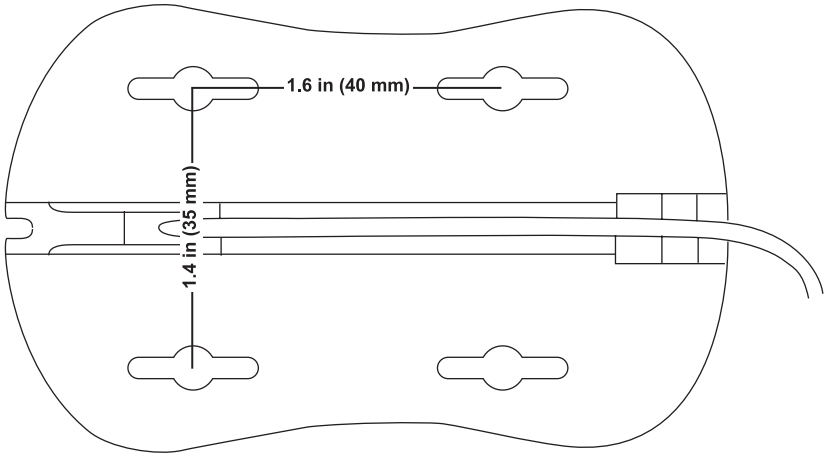
Outdoor installation or indoor wall mounting

The antenna can also be attached vertically to an external or internal wall if that is more convenient than placing it on a horizontal surface.

1. Holding your antenna up, find a wall location that ensures a strong signal. It is recommended that you use an extension cord to temporarily locate your SKYFi™ Home stand outdoors while optimizing the antenna location with the “ Antenna Aiming” screen.

2. Attach four screws to the wall using the screw-locator pattern in figure 6. Photocopy the pattern to use as a template. Use screws with head sizes small enough to fit in the center of each of the four holes but large enough not to pop out of the elongated sections. Leave 1/8 inch of the screw shanks behind the heads sticking out of the wall.
3. Tilt the antenna fully back on the base. Place the antenna base on the four screw heads with the antenna pivot at the top. and pull down approximately 1/4 inch until the base is firmly secured. Note that the XM logo will be upside down when the antenna is properly installed.
4. Tilt the antenna away from the wall/base until the signal is optimized.

Note: Do not cut the antenna cable and attempt to splice it or attach alternative connectors or cable. The cable and connectors used in your SKYFi™ Home Adapter Kit are specially chosen and attached at the factory to ensure that they will work with XM's unique frequency band. Use an XM-approved extension kit (Deplhi model number SA10006) with your SKYFi™ system.



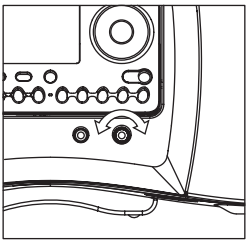
Photocopy this diagram of the screw-locator pattern on the bottom of your XM Antenna to use as a template for wall attachment.

Using the SKYFi™ Audio System

Once the SKYFi™ Audio System is set-up and the SKYFi™ R eceiver installed, the complete set-up can be controlled as described in the SKYFi™ Operating Guide.

Unique SKYFi™ Audio System features include the following:

Volume



Volume can be adjusted using the volume knob on the SKYFi™ Audio System. In addition, when the SKYFi™ Receiver is connected to the Audio System, the + and – controls on the remote control can also be used to increase (+) and decrease (-) the volume.

If you also use your SKYFi™ Receiver with a vehicle adaptor kit or home adaptor kit, the SKYFi™ Receiver will remember the volume level previously set when connected to the Audio System and return to that setting the next time the Audio System is used.

Note that the Line Out Level cannot be reset while the SKYFi™ Receiver is in the Audio System since the volume control should be used to control the audio output instead. If the line out setting is adjusted while in a car cradle or home stand and the SKYFi™ Receiver is later reconnected to the Audio System, it will automatically return to the prior setting the next time it is used in a vehicle adaptor or home adaptor.

Bass & Treble

Bass and treble can be adjusted by pressing the “menu” button, selecting “Bass + Treble,” and then setting them in the same manner as other menu functions.

This feature only appears and only applies when the SKYFi™ Receiver is seated in the Audio System. If the SKYFi™ Receiver is removed and used in a vehicle adaptor or home adaptor, the bass and treble settings out of SKYFi™ will be “flat”, or “zero”, since the audio signal will be processed by the vehicle or home audio systems. When SKYFi™ is returned to the Audio System, it will return to the previously used bass and treble settings.

Headphones

The SKYFi™ Audio System has a “headphone” jack conveniently located next to the “volume” control on the front of the unit. Many popular styles and types of headphones or “ear buds” can be used as long as their plugs and/or adaptors fit the industry standard 3.5 mm diameter stereo jack.

⚠ Hearing damage from loud noise is almost undetectable until it is too late. Your hearing can adapt to higher volumes of sound. Sound that seems normal can be loud and harmful to your hearing. Take precautions by adjusting the volume control on your audio system to a safe sound level before your hearing adapts to it.

To help avoid hearing loss or damage do the following:

1. Adjust the volume control to the lowest setting.

2. Increase volume slowly until you hear comfortably and clearly.

Precautions:

1. On power sources.

- For AC operation, it is recommended that only the supplied AC power adaptor is used; If you need to use another one, make sure it is a 12V, 1500mA DC adaptor with a unified polarity-type jack.

- The satellite radio unit (SKYFi™) is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the satellite radio unit (SKYFi™) itself has been turned off or detached.

- Unplug the AC power adaptor from the wall outlet when it is not used for an extended period of time.

- For battery operation, use six D size (R20) batteries.

- When the batteries are not being used, remove them to avoid possible damage that can be caused by battery leakage or corrosion.

- The icon indicating operating voltage, power consumption, etc. is located next to the power jack on the rear cover.

2. On placement.

- Do not place the SKYFi™ Audio System on an inclined or unstable surface.

- Do not place anything within 1/2 inch of the side of the cabinet. The audio/ventilation ports must be unobstructed for the SKYFi™ Audio System to operate properly and prolong the life of its components.

- If the SKYFi™ Audio System is left in a car parked in the sun, be sure to choose a location in the car where the unit will not be subjected to the direct rays of the sun.

- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the unit to prevent possible damage from the magnetic fields.

4. Do not immerse in water

This product is not meant to be immersed in water or come in continuous contact with water.

- Before opening or shutting the SKYFi™ Receiver cradle or battery compartment panel, be sure to wipe off water, dust, or sand on the outside of the unit.

- If the SKYFi™ Audio System is splashed with salt water, wipe clean with a damp cloth, and then dry with a soft dry cloth. Do not wash under running water; do not use soap or detergent; do not dry with an electric hair dryer.

- The supplied AC power adaptor is not water resistant. To prevent shock hazard, avoid using the SKYFi™ Audio System near water during AC operation.
- Water in the headphone jack may cause rusting and possible malfunction.

Troubleshooting

General:

1. The power is not on.

- Connect the AC power adaptor to a wall outlet securely and make sure the wall outlet has the 110V AC output.
- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak.

2. There is no audio.

- Unplug the satellite radio unit (SKYFi™) from the audio system and re-insert the SKYFi™ unit..

3. Noise is heard coming through the Audio system.

- Someone is using a portable telephone or other equipment that emits radio waves near the antenna (~2.3GHz). To solve this problem move the portable telephone etc., away from the unit.

Maintenance

To clean the cabinet panel and controls, use a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzene.

Note: Unplug the AC power adaptor during the cleaning to avoid any electrical shock hazard.

Specifications

ITEM		UNIT	SPECIFICATION		REMARK	
			Nominal	Limited		
1	Continuous Average power Output	W	> 4	> 3.5	Rated Output (10%) at 1 KHz	
2	Total Harmonic Distortion	%	> 0.6	> 1.0	Output: 0.5w	Frequency: 70Hz - 20KHz
3	Sensitivity	mV	180	140 ~ 235	Line Input	Frequency: 70Hz~20KHz
4	Frequency Response	Hz	65 ~ 22K	70 ~ 20K	-3dB	0dB: 0.775V/1KHz
5	Signal To Noise Ratio	dB	>65	>60	Level 1 0db: 2.0V/1KHz	
6	Channel Separation	dB	>45	>40	Input: Short	Level 1 0db: 2.0V/1KHz
7	Input Impedance	Ohm	-	-	Normal Input	Frequency 1KHz
			-	-	Floating Input	
			>4.7K	>4.5K	Line Input	
8	Max noise Ratio	mV	3	5	Input: Short	
9	Battery Power Range	V	7 ~ 16	7.5 ~ 15	Operation fine	
10	Dimension	mm	__18 3/4"_ W.	___7"__ H.	_____5 5/16"_____ D.	

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DAO-02-E-103